

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: **04365493 A**

(43) Date of publication of application: **17.12.1992**

(51) Int. Cl. **C12P 13/14**

/(C12P 13/14, C12R 1:15), (C12P 13/14, C12R 1:13)

(21) Application number: **03178450**

(22) Date of filing: **18.07.1991**

(30) Priority: **10.09.1990 JP 02239295**

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(54) **PRODUCTION OF L-GLUTAMIC ACID BY FERMENTATION METHOD**

(57) Abstract:

PURPOSE: To industrially and inexpensively obtain the subject compound by culturing a variant belonging to the genus *Brevibacterium* or *Corynebacterium*, capable of producing L-glutamic acid, and having resistance to antibiotics with inhibitory action on cell wall synthesis.

CONSTITUTION: A variant [e.g. *Brevibacterium*

lactofermentum-vancomycin resistant variant AJ12,557 (FERM P-11,730)] belonging to the genus *Brevibacterium* or *Corynebacterium*, capable of producing L-glutamic acid, and having resistance to antibiotics with inhibitory action on cell wall synthesis, is inoculated into a medium having an osmotic pressure of 2,000-4,000 mOsm/kg.H₂O which is higher than a common medium in L-glutamic acid fermentation, subjected to shaking culture at 31.5°C, L-glutamic acid is formed and accumulated in the culture solution and collected to give the objective L-glutamic acid.

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